chimeric fatty body[-pro-]GRF 1. (Twice Amended) Α with increased biological potency, of the following general formula:

Al-A2-Asp-Ala-Ile-Phe-Thr-A8-Ser-Tyr-Arg-Lys-Val-Leu-A15-Gln-Leu-A18-Ala-Arg-Lys-Leu-Leu-A24-Asp-Ile-A27-A28-Arg-A30-R0

wherein,

A1 is Tyr or His;

A2 is Val or Ala;

A8 is Asn or Ser;

A18 is Ser or Thr

A15 is Ala or Gly;

A24 is Gln or His;

A27 is Met, Ile or Nle;

A28 is Ser or Asp;

A30 is any amino acid sequence of 1 to 15 residues;

Ro is NH2;

wherein Al is N- [or O-]anchored by a hydrophobic tail of the following general formula I:

 $R_{4}-(Z)_{h}-(\dot{C}H)_{q}-(W'=Y')_{f}-(\dot{C}H)_{e}-(W=Y)_{d}-(\dot{C}H)_{c}-(X)_{b}-(G)_{a}-(G)_{e}-(G)_$ wherein,

is a carbonyl[, a phosphonyl, a sulfuryl sulfinyll group;

X is a oxygen atom, sulfur atom or an amino group (NH); (W=Y) represents cis or trans (CH=CR5);

(W'=Y') represents cis or trans (CH=CR6);

Z is an oxygen or a sulfur atom;

 R_2 and R_3 , independently, are selected from [a hydroxyl group, a hydrogen atom, and a linear branched C1-C6 alkyl group;

 R_4 is [an hydroxyl group,] a hydrogen atom[or a linear or branched C5-C, alkyl group];

 R_s and R_6 , independently, are a hydrogen atom or a linear or branched $C_1 - C_4$ alkyl group;

a is [0 or] 1; b is 0 [or 1];

c is 0 to [8]3;

d is 0 or 1;

e is 0 to [8]3;

f is 0 or 1;

g is 0 to [8]4;

h is 0 [to 1];

) NON

wherein the sum of d + f = 1 or 2 and the sum of a, b, c, d, e, f, g and h is such that the hydrophobic tail of formula I has a linear main chain of between 5 and 7 carbon atoms [(C, O and/or S)].

- 5. The chimeric fatty body[-pro-]GRF analog of claim [4]1, wherein c is 0.
- 6. The chimeric fatty body[-pro-]GRF analog of claim 5, wherein A30 is Gln-Gln-Gly-Glu-Ser-Asn-Gln-Glu-Arg-Gly-Ala-Arg-Leu.
- 7. The chimeric fatty body[-pro-]GRF analog of claim 6, wherein R_0 is NH_2 .
- 8. The chimeric fatty body[-pro-]GRF analog of claim 7, of the formula cisCH₃-CH₂-CH=CH-CH₂-CO-Tyr-Ala-Asp-Ala-Ile-Phe-Thr-Asn-Ser-Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Gln-Asp-Ile-Met-Ser-Arg-Gln-Gly-Glu-Ser-Asn-Gln-Glu-Arg-Gly-Ala-Arg-Ala-Arg-Leu-NH₂ or transCH₃-CH₂-CH=CH-CH₂-CO-Tyr-Ala-Asp-Ala-Ile-Phe-Thr-Asn-Ser-Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gln-Asp-Ile-Met-Ser-Arg-Gln-Gly-Glu-Ser-Asn-Gln-Glu-Arg-Gly-Ala-Arg-Ala-Arg-Leu-NH₂.

- 9. The chimeric fatty body[-pro-]GRF analog of claim 1, wherein [A1 is Tyr or His N-alpha anchored by hydrophobic tail of formula I, wherein a=1; each of b and h=0;] the sum d+f=2;[G= carbonyl;] R_1 , R_2 , R_3 and $R_4=$ hydrogen atom and the sum c+e+g=2, 3 or 4.
- 10. The chimeric fatty body[-pro-]GRF analog of claim 1, wherein [Al is Tyr or His N-alpha anchored by hydrophobic tail of formula I, wherein a=1; each of b and h=0; the sum of d+f=1 or 2; $G=carbonyl; R_1, R_2, R_3$ and $R_4=hydrogen$ atom; and the sum c+e+g=3, 4 or 5.
- 11. A pharmaceutical formulation for inducing growth hormone release which comprises as an active ingredient a GRF analog as claimed in claim 1 or 21, in association with a pharmaceutically acceptable carrier, excipient or diluent.
- 12. A method of increasing the level of growth hormone in a patient which comprises administering to said patient an effective amount of a GRF analog as claimed in claim 1 or 21.
- 13. A method for the diagnosis of growth hormone deficiencies in patients, which comprises administering to said patient a GRF analog as claimed in claim 1 or 21 and measuring the growth hormone response.
- 14. A method for the treatment of pituitary dwarfism or growth retardation in a patient, which comprises administering to said patient an effective amount of a GRF analog as claimed in claim 1 or 21.
- 15. A method for the treatment of wound or bone healing in a patient, which comprises administering to said patient an effective amount of a GRF analog as claimed in claim 1 or 21.

- 16. A method for the treatment of osteoporosis in a patient, which comprises administering to said patient an effective amount of a GRF analog as claimed in claim 1 or 21.
- 17. A method for improving protein anabolism in human or animal, which comprises administering to said human or animal an effective amount of a GRF analog as claimed in claim 1 or 21.
- 18. A method for inducing a lipolytic effect in human or animal inflicted with clinical obesity, which comprises administering to said human or animal an effective amount of a GRF analog as claimed in claim 1 or 21.
- 19. A method for the overall upgrading of somatroph function in human or animal, which comprises administering to said human or animal an effective amount of a GRF analog as claimed in claim 1 or 21.

Please add claim 21:

21.(Added) The chimeric fatty body GRF analog of claim 7, of the formula transCH₃-CH₂-CH=CH-CH₂-CO-Tyr-Ala-Asp-Ala-Ile-Phe-Thr-Asn-Ser-Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gln-Asp-Ile-Met-Ser-Arg-Gln-Gln-Gly-Glu-Ser-Asn-Gln-Glu-Arg-Gly-Ala-Arg-Ala-Arg-Leu-NH₂.

Please cancel claims 2,3,4 and 20.